

## ABSTRACT OF THE INVENTION

The present invention is a device that includes a rectifier and a super capacitor packaged together in a single housing. The device has a first connection point that is coupled to the rectifier input. The output of the rectifier is coupled to a first side of the capacitor and to a second connection point of the device. The second side of the capacitor is coupled to ground through a third connection point. The device is operable to receive AC power and provide DC power. Moreover, through the operation of the super capacitor, the device will provide DC power for a time after AC power has been removed.